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it did not come into more general use on big paper machines until the late fifties. It will generally pay for itself in reduced wire cost alone in less than two years.

New Developments

There are on the market a number of modified flatboxes designed to replace table rolls. They feature a low vacuum obtained by a short drop leg and/or a fan. The wire may be supported inside the box by rollers, regular table rolls or a number of strips, usually of laminated plastic. None of these devices has reached a state of development that would justify a closer presentation. It is likely, however, that a design will eventually crystallize that will replace the table rolls in filling the gap between the forming board and the flatboxes.

On paper machines where production is limited by the drainage on the wire, steam showers placed above the flatboxes have been found to allow further increase of machine speed. The explanations are lower viscosity of the water in the sheet and less air sucked into the flatboxes. The effectiveness of the method, consequently, depends on the sheet temperature ahead of the flatboxes and the capacity of the vacuum pumps. Where the white water temperature is high and the vacuum capacity ample little or no improvement can be expected from the method. It is believed, however, that many old paper machines could use the method to advantage.

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Canadians Renew World Newsprint Picture

In 1960 world demand for newsprint is establishing new records and all major areas of the world are sharing in the gain, according to the latest annual review by the Newsprint Association of Canada. There is, however, considerable variation in growth rates and the survey, "Newsprint Data: 1960," points out the faster growth which is now occurring overseas than in North America.

In contrast to 1959, demand shows greater increases than capacity in 1960 and world production represents about 88 per cent of capacity compared with 84 per cent last year. Key factors in the outlook for 1961 are the increase of capacity now under construction in Scandinavia and a temporary pause in the United States consumption growth coincident with the current stage of the economic cycle. Their combined effect is such that a world average operating rate of about 86 per cent is suggested for next year.

The survey includes a chart and table of seasonally adjusted U. S. consumption rates which show a temporary decline starting last June. If maintained it suggests slightly lower consumption in 1961 than the record 7.4 million tons expected for 1960.

Canadian mills' production for 1960 is expected to show an increase over 1959 of about 341,000 tons or 5.3 per cent and average operating rate for the year will be about 88.5 per cent compared with 85.0 last year. According to the report, "This is the largest annual increase since 1947 and a new production record about 4.1 per cent more than the previous record of 1956."

For 1961, however, a temporary decline of about 2 per cent is suggested, largely because of the indicated cyclical fluctuation in the United States demand. Canadian capacity for 1961 is virtually unchanged and an average operating rate of about 87.1 per cent would result.

The total amount of "stand-by" capacity in Canada for 1961 appears to be almost a million tons, a reduction from the 1958 peak when it was nearly 1,150,000 tons. The report notes that in the future no repetition of the long postwar period of constant operation at full capacity is foreseen. Growth of capacity in Canada and elsewhere is expected to precede anticipated growth in demand, thus maintaining a margin of "stand-by" capacity available in case of need.

The survey includes comparisons of capacity growth in Canada with other areas of the world, showing the greater rates but smaller volume elsewhere. It points out the very rapid increases recently achieved in the United States and Scandinavia, each of which has added about a million tons in the last five years. Also shown are capacity increases by region in Canada and in the United States, emphasizing the greater growth rates of the Canadian West and the Southern States.

As in previous years, this survey presents a complete world statistical review with charts and tables, also individual data country by country. It concludes with a list of new capacity projects and prospects all over the world.

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Modern Methods of Mechanical Pulp Manufacture

This book comprehensively covers all aspects of groundwood pulp production. The author, K. H. Klemm, has a broad knowledge of groundwood manufacturing methods and has been associated with groundwood mills on both sides of the Atlantic. Price: $5.00.

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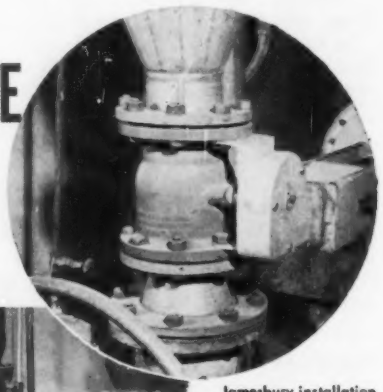

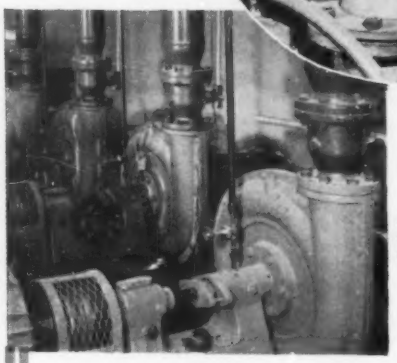

Jamesbury installation at Weyerhaeuser Longview Plant

Jamesbury installation at Mead Corporation Chillicothe Plant

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